AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-11. (canceled)

12. (currently amended) A vehicle wheel assembly comprising a rim (16) and a tire (18) defining between them a closed space (30) filled with gas under pressure, a reservoir (40) of gas under pressure, and means (50) for selectively connecting the reservoir (40) of gas under pressure to the closed space (30) defined between the rim (16) and the tire (18), wherein the reservoir (40) of gas under pressure is constrained to rotate with the rim (16), and wherein the reservoir (40) is disposed between sidewalls (18B) of the tire in the annular space (30) defined between the tire (18) and the rim (16).

13. (previously presented) A wheel assembly according to claim 12, wherein the reservoir (40) is filled with nitrogen.

14. (currently amended) A wheel assembly according to claim 12, including a control unit (54) connected to the means (50) for selectively connecting the gas reservoir (40) to the closed space (30) to switch ~~them~~ said means (50) between an open state and a closed state.

15. (currently amended) A wheel assembly according to claim 14, including a sensor (80) for measuring the pressure

inside said closed space (30), and wherein said control unit (54) is adapted to switch said ~~connection~~ selectively connecting means (50) as a function of the pressure in said closed space (30).

16. (currently amended) A wheel assembly according to claim 14, including a temperature sensor (82), and wherein said control unit (54) is adapted to switch said ~~connection~~ selectively connecting means (50) as a function of the temperature measured by the sensor (82).

17. (previously presented) A wheel assembly according to claim 12, wherein said control unit (54) comprises:

· a remote data processor unit (68) that does not rotate with the rim (16);

· a controller (62) for controlling the means (50) for selectively connecting the reservoir (40) to the closed space (30), said controller (62) being constrained to rotate with the rim (16); and

· complementary wireless communications means (64, 66, 72, 74; 122, 124) connected firstly to said data processor unit (68) and secondly to said controller (62) to transmit commands from said data processor unit (68) to the controller (62).

18. (currently amended) A wheel assembly according to claim 17, including a pressure and/or temperature sensor (80, 82) inside said closed space and complementary wireless communications means (64, 66, 72, 74; 122, 124) connected firstly to the ~~or each~~ sensor (80, 82) and secondly to said data

processor unit (68) for transmitting the measured values from the ~~or each~~ sensor (80, 82) to said data processor unit (68).

19. (withdrawn) A wheel assembly according to claim 17, wherein said complementary communications means comprise a rotary transformer (120) comprising two windings (122, 124) mounted to rotate relative to each other, one of the windings (122) being constrained to rotate with the rim (16).

20. (previously presented) A wheel assembly according to claim 17, wherein said complementary communications means comprise two antennas (66, 74) one of which is constrained to rotate with the rim (16) and the other of which is connected to the data processor unit (68) and does not rotate with the rim (16), being situated remotely therefrom.

21. (previously presented) A wheel assembly according to claim 14, including means (56) for selectively venting said closed space (30), said means being connected to said control unit (54) to cause them to switch between an open state and a closed state.

22. (withdrawn) A wheel assembly according to claim 21, wherein said means (50) for selectively connecting the reservoir (40) to said closed space (30) and said means (56) for selectively venting said closed space (30) comprise a three-port valve (100) with a first port (102) connected to said closed space (30), a second port (104) connected to the reservoir (40), and the third port (106) connected to the atmosphere, the valve

(100) including a selector (108) movable between a first position in which all three ports are closed, a second position in which the first and second ports (102, 104) are put into communication, while the third port (106) is closed, and a third position in which the first and third ports (102, 106) are put into communication, while the second port (104) is closed.